

an array of contact elements located at one end of said printed circuit board for contact with corresponding elements of said ultrasonic array;

a connector at an end of said printed circuit board opposite said array of contact elements;

a top layer and a bottom layer, each being a ground plane; and

a plurality of internal layers between said top layer and said bottom layer and carrying thereon printed circuit lines connecting said array of contact elements with said connector.

2. (Amended) The printed circuit board of claim 1, having two internal layers, with half of said contact elements being connected to lines on each layer.

8. (Amended) The system according to claim 6, wherein said printed circuit board carries a first connector at an end opposite said array for connection to said printed circuit lines, and wherein said multiplexer is connected through a cable to a second connector mateable with said first connector.